CLOCK RECOVERY METHODS AND APPARATUS

ABSTRACT

A source application executed within a source device may packetize and send source data over a link to a destination application executed within a destination device. In various embodiments, clock recovery processes are performed in conjunction with the destination application in order to synchronize the rates of source data production and consumption (e.g., playback). To facilitate the clock recovery process, a transport delay is calculated based on the difference between a source MAC-layer timestamp and a destination MAC-layer timestamp that envelop portions of the link that include variable delay elements. The transport delay is used by the clock recovery process to adjust a source application-layer timestamp, in one embodiment. In another embodiment, the transport delay is used by the destination device to impart a fixed cumulative transport delay on the source data before it is delivered to the destination application.

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